

ঢাকা বোর্ড

বহুনির্বাচনি অধীক্ষা

পদার্থবিজ্ঞানে

দ্বিতীয় পর

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 5

সেট :

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[বিশেষ প্রতিস্থা:—সরকারাধিকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বসিয়ে পয়েন্ট কলাম দ্বারা সম্পূর্ণ তথ্যটি কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। কোন নির্দিষ্ট পরিমাণ গ্যাসের অভ্যন্তরীণ শক্তি কেবল নির্ভর করে এর—

- (ক) তাপমাত্রার উপর
- (খ) চাপের উপর
- (গ) আয়তনের উপর
- (ঘ) এনট্রপির উপর

২। এনট্রপির বেলায় প্রযোজ্য—

- I. এর কোনো পরম মান নেই
- II. প্রত্যাবর্তী প্রক্রিয়ার এনট্রপির কোনো পরিবর্তন হয় না
- III. অপ্রত্যাবর্তী প্রক্রিয়ায় এনট্রপি হির থাকে

নিচের কোনটি সঠিক?

- (ক) I ও II
- (খ) I ও III
- (গ) II ও III
- (ঘ) I, II ও III

নিচের উদাহরণের আলোক ৩ ও ৪nm প্রশ্নের উত্তর দাও :

একটি কার্বোইজিন পৃষ্ঠীত তাপের $\frac{1}{4}$ অংশ কাজে পরিণত করে। এর তাপ গ্রাহকের তাপমাত্রা 30 K কমলে দক্ষতা কিভাবে হয়।

৩। ইঞ্জিনের দক্ষতা কত?

- (ক) 80%
- (খ) 75%
- (গ) 33%
- (ঘ) 25%

৪। তাপ উৎসের তাপমাত্রা কত?

- (ক) 60 K
- (খ) 90 K
- (গ) 120 K
- (ঘ) 150 K

৫। যু-সংযুক্ত বস্তুর তড়িৎ বিভব—

- (ক) ধনাত্মক
- (খ) শূন্য
- (গ) ঋণাত্মক
- (ঘ) অসীম

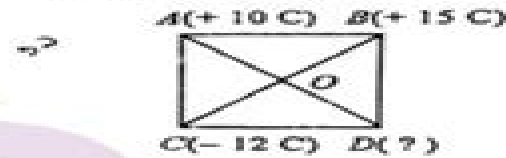
৬। তুল্যের সূত্র—

- I. কেবল বিদ্যুৎ চার্জের ক্ষেত্রে প্রযোজ্য
- II. প্রতিবর্তী চার্জের ক্ষেত্রে প্রযোজ্য নয়
- III. যান্ত্রিকের উপর নির্ভর করে

নিচের কোনটি সঠিক?

- (ক) I ও II
- (খ) I ও III
- (গ) II ও III
- (ঘ) I, II ও III

৭। চিত্রে বর্ণিত ক্ষেত্রে D বিন্দুতে কত চার্জ স্থাপন করলে এর কেন্দ্রে বিভব শূন্য হবে?



- (ক) -15 C
- (খ) -10 C
- (গ) -13 C
- (ঘ) 0 C

৮। অ্যাম্পিয়ার ঘণ্টা কীনের একক?

- (ক) সময়
- (খ) তড়িৎ শক্তি
- (গ) তড়িৎ প্রবাহ
- (ঘ) তড়িৎ আধান

৯। কোন দুটি সূত্র চল তড়িৎ এর ক্ষেত্রে প্রযোজ্য?

- (ক) তুল্য ও ওহম
- (খ) গাউস ও কার্শফ
- (গ) তুল্য ও বাসি
- (ঘ) ওহম ও কার্শফ

১০। 1-8 Ω রোধের একটি অ্যামিটার 2A তড়িৎ প্রবাহ প্রদান করতে পারে। 20A তড়িৎ প্রবাহ মাপার জন্য কত রোধের শাট ব্যবহার করতে হবে?

- (ক) 0.08 Ω
- (খ) 0.1 Ω
- (গ) 0.2 Ω
- (ঘ) 5 Ω

১১। অসমবর্তিত আলোক প্রতিফল সমবর্তিত আলোক প্রতিফলিত হওয়ার ক্ষমতা কত? কোন প্রক্রিয়ায়?

- (ক) ব্যক্তিগত
- (খ) অপবর্তন
- (গ) সমবর্তন
- (ঘ) প্রতিফলন

১২। তরঙ্গদুয়ের বৈশিষ্ট্য হলো—

- I. তরঙ্গদুয়ের প্রতিটি কণা একই দশার থাকে
- II. তরঙ্গদুয়ের সাথে অতিক্রম অতিক্রম আলোক তরঙ্গের নিক নির্দেশ করে
- III. নির্দিষ্ট তরঙ্গের তরঙ্গদুয় সর্বদা সমান্তরাল হবে

নিচের কোনটি সঠিক?

- (ক) I ও II
- (খ) I ও III
- (গ) II ও III
- (ঘ) I, II ও III

Hsc Physics 2nd Paper Question 24

Zhe Xu



Hsc Physics 2nd Paper Question 24:

The Top Books of the Year Hsc Physics 2nd Paper Question 24 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. Hsc Physics 2nd Paper Question 24 : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Hsc Physics 2nd Paper Question 24 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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